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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/084,935	03/01/2002		Shunpei Yamazaki	740756-2447	8560
31780	7590	07/11/2005		EXAMINER	
ERIC ROB	INSON		JACKSON JR, JEROME		
PMB 955 21010 SOUTHBANK ST.			ART UNIT	PAPER NUMBER	
POTOMAC FALLS, VA 20165				2815	<del></del>
				DATE MAILED: 07/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	Office Anti Commence	10/084,935	YAMAZAKI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Jerome Jackson Jr.	2815				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 111	<u>May 2005</u> .					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ Thi	s action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims		•				
4) ☐ Claim(s) 19-26 and 35-58 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 19-26 and 35-58 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 Ų.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	t(s) te of References Cited (PTO-892)	4) 🔲 Interview Summar	y (PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [	Date				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 19-26 and 35-58 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhang '075

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

The previous rejection still applies. Contrary to applicant's arguments the insulation layer with carbon of Zhang is used as the gate insulator as it naturally forms during the CVD process for the gate insulator. As stated the carbon comes from either the organic carrier gas or from the carbon impurities in the semiconductor material oxidized.

Claims 19-26 and 35-58 are rejected under 35 U.S.C. 102(b) as anticipated by Jp '6790 or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jp '679 in view of Jp '267.

The previous rejection with the above comments applies.

Applicant's arguments filed 5/11/05 have been fully considered but they are not persuasive. As stated above Zhang teaches carbon impurities in the gate insulation layer. Arguments that the prior art does not teach carbon impurities in a gate insulating

layer are unpersuasive as all the oxide layers of the Zhang device have some trace of carbon impurities as explained in the previous rejections. Again, contrary to applicant's arguments on page 10 of the remarks, Yamazaki '670 and Chiyou clearly do teach a first silicon oxide layer and a gate insulator of silicon oxide. Clearly, layers 12 and 15 of either Zhang or Yamazaki are silicon oxide material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571-272-1730. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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